

# Aruba R8R48A

## Datasheet

## Product Overview

- Aruba's HPE Networking Instant On Switch 1430 series focuses on delivering cost-effective, high-performance network access for SMBs and home offices.
- Designed for environments that need reliable, easy, and fast connectivity without dedicated IT staff, the 1430 fits small offices, co-working spaces, and home users worldwide.
- With 16 autosensing 10/100/1000Mbps PoE ports, a fanless build for silent running, and a switching capacity reaching 32 Gbps, it handles demanding tasks effortlessly.
- Supports auto MDI/MDI-X, Quality of Service for voice/video, and IEEE 802.1x EAPoL forwarding to streamline resource sharing and authentication.
- The plug-and-play, unmanaged nature eliminates ongoing maintenance and is ready for rapid wall, rack, or tabletop deployment with minimal technical skills needed.
- Combining robust security, PoE for modern IoT devices, and ultra-simple use, Instant On Switch 1430 helps small businesses boost productivity with enterprise-grade reliability.

## Product Highlights

- **Plug-and-Play Simplicity:** Ready-to-use Layer 2 Gigabit switches in 5-, 8-, 16-, 24-, and 26-port models for easy, straightforward deployments.
- **Power Over Ethernet Support:** Delivers up to 124W PoE across models, powering APs, IP phones, and IoT devices directly, reducing cabling complexity.
- **Zero Configuration Required:** Fully automated operation with no setup or ongoing maintenance needed, saving time and operational cost.
- **Energy-Efficient & Quiet:** Fanless design and Energy Efficient Ethernet keep power use low, with certifications for small and home office deployments.

## Detailed Features



R8R48A

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Component	Specification
10/100/1000 Ports	16 x RJ-45 Class 4 PoE (IEEE 802.3af/at)
Supported Duplex Modes	10/100: half/full, 1000: full only
PoE Budget	124W total, up to 30W per port
Auto Sensing	Yes, all ports
MDI/MDI-X Support	Automatic



## Effortless Deployment

The HPE Networking Instant On 1430 Switch series is completely plug-and-play. Simply connect devices and power up; no configuration, licenses, or IT expertise are required. This approach removes setup friction for SMB and SOHO environments, allowing immediate network expansion, quick device integration, and reduced requirement for technical support across diverse business settings.

## Business-Grade Connectivity

With full Gigabit Ethernet support on every port, the 1430 enables high-speed connections throughout your business. A PoE-enabled model powers access points, IP phones, and cameras without the need for extra cabling or power outlets, supporting workplace modernization and efficient network expansion for evolving digital and IoT trends.

## Unified Network Experience

Instant On Switches work seamlessly with Instant On Access Points, automatically prioritizing voice and video traffic with QoS for clear calls and smooth video streaming. This unified approach gives SMBs and SOHOs reliable, enterprise-level experiences and consistent connectivity across both wired and wireless networks.

## Advanced PoE Flexibility

Class 4 PoE support gives each port up to 30W for demanding devices like cameras and advanced access points. Certified by the Ethernet Alliance, total PoE power scales to support growing business deployments, while ethernet standard compliance ensures smooth device compatibility spanning modern IP phones, wireless APs, and legacy 15.4W PoE end devices.

## Silent, Reliable Operation

A fanless design keeps noise at zero and minimizes dust intrusion, making it suitable for offices, retail counters, or meeting rooms. This offers reliable performance plus an extended MTBF, all with lower ongoing energy costs due to Energy Efficient Ethernet features ideal for acoustically sensitive spaces.

## Traffic and Security Optimization

The switch supports DSCP/IEEE 802.1p packet prioritization, forwarding EAPoL and BPDU frames for proper Spanning Tree operation and endpoint authentication, reducing interruptions, preventing network loops, and maintaining stable, secure network topologies with minimal effort.

## Simplified Network Integration

All 10/100/1000 ports support Auto MDI/MDI-X, so straight-through and crossover cabling are interchangeable, reducing installation errors. Flexible mounting options cover rack, wall (up/down), under-table, and tabletop installs, fitting a wide variety of business spaces and network needs.

## Comprehensive Support and Warranty

Aruba provides an industry-leading limited lifetime warranty and 24/7 chat support, ensuring technical assurance throughout the product's operational life. This gives SMBs and integrators confidence to scale or troubleshoot with trusted vendor-backed resources.

## Technical Specifications

### Product Specifications

Feature	Value
I/O Ports	16 RJ-45 autosensing 10/100/1000 Class 4 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Dimensions	260(d) x 275(w) x 44(h) mm
Weight	4.60 lb (2.09 kg)
Processor and Memory	128Kb EEPROM; Packet buffer size: 2.0 Mb
Performance (Throughput/Capacity/MAC Table)	Throughput: 23.80 Mpps; Capacity: 32 Gbps; MAC address table size: 8192 entries
MTBF	126.1 years
Operating Temperature	32°F to 104°F (0°C to 40°C)



Feature	Value
Operating Humidity	15% to 95% @ 104°F (40°C) non-condensing
Nonoperating Temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Nonoperating Humidity	15% to 95% @ 149°F (65°C) non-condensing
Altitude	up to 10,000 ft (3 km)
Acoustics	Fanless
Frequency	50Hz/60Hz
AC Voltage	100-127VAC / 200- 240VAC
Current	1.7A /0.8A
Max Power Rating / Idle Power	147W / 5W
PoE Power	124W Class 4 PoE
Power Supply	Internal Power Supply
Safety Compliance	EN/IEC 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013, EN/IEC 62368-1, 2nd.& 3rd. Ed., UL 62368-1, 3rd. Ed., CAN/CSA C22.2 No. 62368-1, 3rd. Ed., EN/IEC 60825-1:2018
Emissions	EN 55032:2015/ CISPR 32, Class A, FCC CFR 47 Part 15: 2018, Class A, ICES-003, Class A, VCCI-32, Class A, CNS 13438, Class A, KS C 9832, Class A, AS/NZS CISPR 32, Class A
Immunity	BS/EN 55035, CISPR 35, KS C 9835
EN/ESD/Radiated/EFT/Burst/Surge/Conducted	EN/IEC 61000-4-2, EN/IEC 61000-4-3, EN/IEC 61000-4-4, EN/IEC 61000-4-5, EN/IEC 61000-4-6, EN/IEC 61000-4-8
Power Frequency Magnetic Field	EN/IEC 61000-4-11
Voltage Dips / Interruptions	EN/IEC 61000-3-2; EN/IEC 61000-3-3; Harmonics: EN /IEC 61000-3-3
Device Management	Unmanaged
Mounting Options	EIA 19 in telco rack, 2-post kit, table-top, rack-mount, wall-mount (up/down), under-table; not upside-down

## Product Comparison

Feature	R8R48A	C1000-24FP-4G-L	JL728B
Ports	16 x 10/100/1000BASE-T PoE	24 x 10/100/1000BASE-T PoE	24 x 10/100/1000BASE-T PoE
Switching Capacity	32 Gbps	56 Gbps	56 Gbps



Feature	R8R48A	C1000-24FP-4G-L	JL728B
PoE Budget	124W	195W	180W
PoE Per Port Max	30W	30W	30W
Management	Unmanaged	Unmanaged	Unmanaged
Fan Design	Fanless	Fanless	Fanless
Mounting Options	Rack, Wall, Table, Under-table	Rack, Wall, Table, Under-table	Rack, Wall, Table, Under-table
Dimensions (WxDxH)	275 x 260 x 44 mm	445 x 280 x 44.5 mm	443 x 173 x 44 mm
MAC Table	8192 entries	8K entries	8K entries
Application Scenario	SOHO, Small Business	Retail, Small Business	Business Edge, SMB

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Rack Mount Kit</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- PoE Injector</li> <li>- Wall Mount Brackets</li> </ul>



## Support & Warranty



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## References

[1] Hewlett Packard Enterprise (HPE). (2023). HPE Networking Instant On Switch 1430 Data Sheet. Retrieved from [https://www.hpe.com/psnow/doc/a50004290enw.html?jumpid=in\\_pdp-psnow-qs](https://www.hpe.com/psnow/doc/a50004290enw.html?jumpid=in_pdp-psnow-qs)